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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,448	02/09/2004	Haruhisa Yamasaki	042077	3609	
38834	7590 03/31/200	5	EXAM	INER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			JIANG, CH	JIANG, CHEN WEN	
1250 CONN	ECTICUT AVENUE, 1	NW			
SUITE 700			ART UNIT	PAPER NUMBER	
WASHING?	ON, DC 20036		3744		

DATE MAILED: 03/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Asticus Occurrence	10/773,448	YAMASAKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chen-Wen Jiang	3744	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be timulated the control of	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).	
Status			
1) ⊠ Responsive to communication(s) filed on <u>27 Ja</u> 2a) □ This action is FINAL . 2b) ⊠ This 3) □ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) 8-24 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	e: a) \boxtimes accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ⊠ Acknowledgment is made of a claim for foreign a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. □ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Motice of References Cited (PTO-892)	4) Interview Summary		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20040628,20041116. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)	

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Species I, claims 1-7, in the reply filed on 1/27/2006 are acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Marques et al. (WO 96/19704).

In regard to claims 1 and 3, Marques et al. disclose a refrigeration system controlling the refrigerant during start up, comprising compressor 1, condenser 2, parallel capillary 10,20, valve 20 in series with small resistance, evaporator 3 and temperature sensor S1 for the evaporator.

In regard to claims 5 and 6, Marques et al. disclose the restriction variation being determined in function of the temperature measured at a region of the space, particularly in a median portion of the evaporator.

In regard to claim 2, valve control on each capillary is a design choice.

In regard to claim 4, the selection of a predetermined time and reaching the predetermined temperature are equivalent, which is a design choice.

In regard to claim 7, the system disclosed by Marques et al. is capable to operate on twostage compressor using carbon dioxide refrigerant.

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4. Claims 1-4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tokuhisa (JP 04203757).

In regard to claims 1 and 4, Tokuhisa discloses an air-conditioner comprising compressor 1, condenser 2, parallel capillary 3,4, valve 7 and evaporator 4. The valve 7 is opened for a specified time during starting of the cooling cycle.

In regard to claim 2, valve control on each capillary is a design choice.

In regard to claim 3, the small resistance on capillary 6 is inherent in the system based on the scientific reasoning that the purpose of capillary 6 is to reduce the resistance.

5. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukuchi et al. (JP 06050646).

Fukuchi et al. disclose a refrigerator comprising a compressor 11, condenser 12, parallel capillary 21,22,23 with valves 24,25,26 and evaporator 7. Fig.4 presents the control of the valves for the capillaries during start up.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Monday-Thursday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chen-Wen Jiang Primary Examiner

